

On page 16, at line 27, after "emergency" insert  $\frac{1}{2}$  and within a very short time period.

a'  
In such applications, the delay caused by an operator removing his or her work gloves in order to operate the switch is very undesirable--.

a<sup>2</sup>  
On page 17, at line 28, please delete "310" and insert, after "02"  $\frac{1}{2}$ , including events 310 and 310' in the voltage waveform at zero crossings of waveform 1,--.

On page 18, at line 25, after "820" insert --)--.

On page 21, at line 11, delete after the word "terminals" to the end of the sentence at line 13.

On page 23, at line 6, delete "(i.e., capacitance)"; at line 21, delete "band" and substitute --spectrum--.

On page 24, at lines 32 and 33, delete "In the first cycle of the AC power signal" and substitute -- Initially, --.

On page 25, at line 1, insert after "not" --significantly--; at line 12, after "discharge" insert -- and to maintain discharged--; at lines 17 and 18, delete "during the zero-crossings of the twin half-wave DC signal"; at line 18; insert before "As"  $\frac{1}{2}$  The voltage across the two terminals of semiconductor switch 1 maintains capacitor C1 in a fully charged state.--.

On page 26, at line 9, delete "twin half wave"; at line 10, delete "The discharging current of"; delete line 11 and insert  $\frac{1}{2}$  Even if the electrical signal is removed, the charging current of capacitor C1 creates a pulse that is  $\frac{1}{2}$ ; at line 14, after "15" insert  $\frac{1}{2}$ , and triggers

SCR controlled bridge rectifier 8, thereby causing semiconductor switch 1 to become conducting. $\frac{1}{2}$ ; at line 15, after "below," insert -- in the next half wave, --; at line 17, after "pulse" insert -- which continues to be --; at line 19, insert after the period,  $\frac{1}{2}$ (At this time,

capacitor C4 is fully charged, so that the triggering pulse is provided entirely to the SCR controlled bridge rectifier 8.)<sup>+</sup>; at line 25, delete "conducting" insert --causing each other to conduct--; at line 26, after "path" insert -- for discharging capacitor C1--.

On page 28, at line 2, before "predetermined" insert --large--; at line 3, after "is" insert --rapidly--; at line 7, after "is" insert --rapidly--; at line 12, delete "(c)" and substitute --(b)--; at line 15, insert before "high" -- a very --.

On page 29, at line 6, insert after "to" -- completely--; at line 15, delete "4" and substitute --C4--.

On page 32, at line 28, delete "on the" and substitute --one--; delete "Second" and substitute --invention--.

On page 33, at line 19, delete "SCR1" and substitute --SCR3--.

On page 35, at line 19, delete "forward-biased" and substitute --triggering--.

On page 36, at line 9, delete "is triggered to"; at line 10, delete "maintain" and substitutes --maintains--.

On page 37, at line 7, delete from "provides" to the end of the sentence, and substitute -- maintains a stable "ON" state even during frequent or short-duration power interruptions--;

at line 13, delete "feedback"; at line 25, delete "in parallel".

On page 38, at line 8, delete "diodes"; at line 18, delete "Capacitor" and substitute --Capacitors--; insert after "C42" -- and C45-- and move that sentence (i.e., the sentence beginning "Capacitors C42 ...") to line 22, after "series."